

Work Order ID 160345

Tuesday, April 25, 2017 3:20:15 PM

160345

Page 1

Item ID: D4018-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Short Basket Lid Assembly
Start Date: 4/28/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 5/3/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan:  Date: APR 25 2017 Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
----------	--------------

D4018	D
D4020	A

100 Weld per dwg A/R S.S. rod Batch: 136920 0.00***100***

Large Fab

Large Fab

Large Fab

Memo

2.03

1- assemble ribs , weld as per dwg D4018 using DT9607B

2- weld hinge (3) and Mounting brackets as per dwg D4018

inspect before welding mesh

3- Cut mesh as per dwg D4020-7

4- tack weld mesh on basket as per dwg D4018

***make sure to place mesh correctly on lid, check with label plate before
tacking mesh***1x Sp 17-05-17

110

QC9- Inspect visual per QSI004- Fusion Welds 0.00

110

QC

Quality Control

Memo

0.00

① 17-05-18DAS
9
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : ☐							

①

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120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.02							DAS 9 9-89
Quality Control									
130	Black Sandtex(Ref:4.3.5.7) per QSI005 4.3	0.00							
130	M136370.								
Powdercoat	Memo	0.46							1 0 17-05-18. DAS 34 2-89
Powder Coating	*** mask sides of hinge prior to powdercoat*** Start Time: 2:05 Oven Temperature: 320° Finish Time: 2:35								
140	Wing Walk as per dwg QSI005 4.4 Batch M137090								
140									
HandFinish	Memo	0.70							1 1 12/05/23
Hand Finishing	1- Mask data plate and apply wing walk on outside surface of mesh as per dwg Install placard and label as per dwg ***Mask label plate to size of label, use scotchbrite red pad to lightly sand area for label, apply label ***								

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OTHER : ☐									

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150	QC3- Inspect Part Finish	0.00							
150									
QC	Memo	0.01				1			DAS 38 9-89
Quality Control									MAY 23 2017
160	Identify as per dwg & Stock Location: <u>wlb</u>	0.00							
160									
Packaging	Memo	0.01							
Packaging									D4032-041 / B160329 k f JH calco/22
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	0.10							
Quality Control									17/5/25 JH DAS 21 9-89 MAY 25 2017

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QA Closed: _____ Date: _____

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Picklist Print

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Parent Item: D4018-041

D4018-041

Parent Item Name: AS350 Short Basket Lid Assembly

Start Date: 4/28/2017

Required Date: 5/3/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP RevA: new issue DD 09.11.30 verified by:EC IPP Rev:B as per dwg revA 10.03.15 verified by:EC IPP Rev:C as per dwg RevB DD 10.04.16 verified by:EC IPP Rev:D as per dwg revC DD 10.08.18 verified by:EC IPP REV:E 13.08.21 DWG REV.D / ECN 13-624 DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M304EX0.75-16F

Purchased

No

100

sf

374.5000

8.4578

8.4578

M304FX0 75-16F

Expanded Metal Flat SS

**

B137421

10

C

17-05-16

Location

Loc Qty

Loc Code

WA004

374.5

M136991

30.5

M137294

344

D4018-1

Manufactured

No

100

Each

10.0000

2

2

D4018-1

Rib

**

B157842 → 2x C 17-05-1

Location

Loc Qty

Loc Code

WA004

10

146427

1

148048

1

157842

8

D4018-3

Manufactured

No

100

Each

10.0000

2

2

D4018-3

Rib

**

B157841 2x C

C 17-05-16

Location

Loc Qty

Loc Code

WA004

10

148050

2

157841

8

DQA: _____ Date: _____



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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Work Order ID: 160345

160345

Parent Item: D4018-041

D4018-041

Parent Item Name: AS350 Short Basket Lid Assembly

Start Date: 4/28/2017

Required Date: 5/3/2017

Start Qty: 1.00

Required Qty: 1.00

D4016-3 Manufactured No

100 Each 54.0000 3 3

D4016-3

Hinge Half, Lid

****** B155384 → 3. C 17-05-16

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
WA004	54	
154823	17	
155384	37	

D4018-5 Manufactured No

100 Each 27.0000 6 6

D4018-5

Rib

****** B160507 → 6. C 17-05-16

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
WA004	27	
152954	6	
157514	21	

D4035-043 Manufactured No

100 Each 6.0000 2 2

D4035-043

Lid Rib Assembly, Aft (350 Basket)

****** B160513 → 2. C 17-05-16

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
WA004	6	
157744	6	

D2581 Manufactured No

100 Each 84.0000 2 2

D2581

Mounting Bracket

****** B152803 → 2. C 17-05-16

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
WA004	84	
152803	38	
157620	26	
159116	20	

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DQA: _____ Date: _____



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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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Start Date: 4/28/2017

Required Date: 5/3/2017

Start Qty: 1.00

Required Qty: 1.00

D4021-3

Manufactured No

100

Each

11.0000

1

1

D4021-3

Data Plate

**

MISS383 → 1x 9/17-05~

Location

Loc Qty

Loc Code

WA004

11

155383

11

D2728-3

Manufactured Yes

140

Each

-1.0000

1

1

D2728-3

Dart Logo Label Large

**

11x) 17/05/23

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DQA: _____ Date: _____

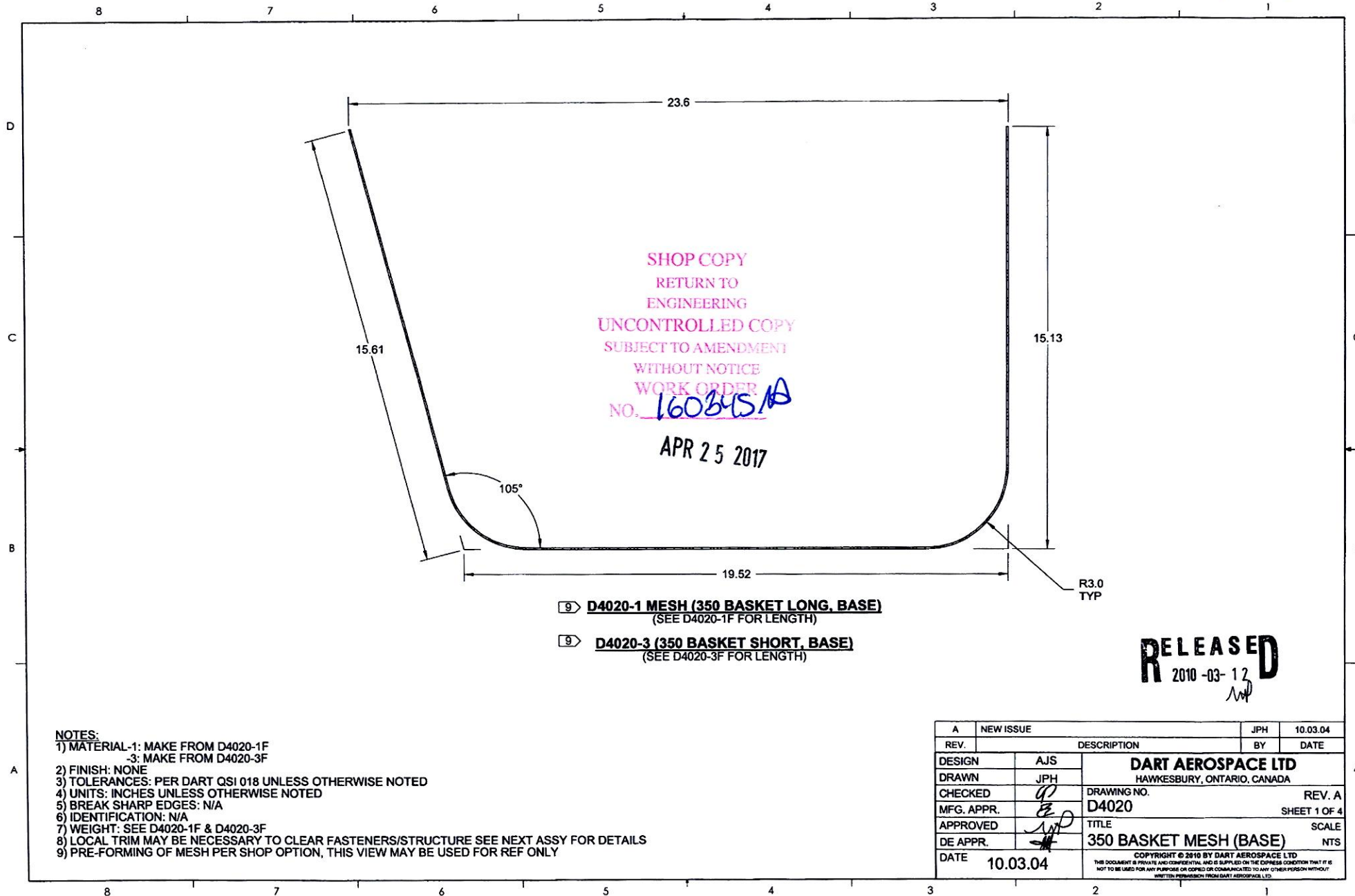


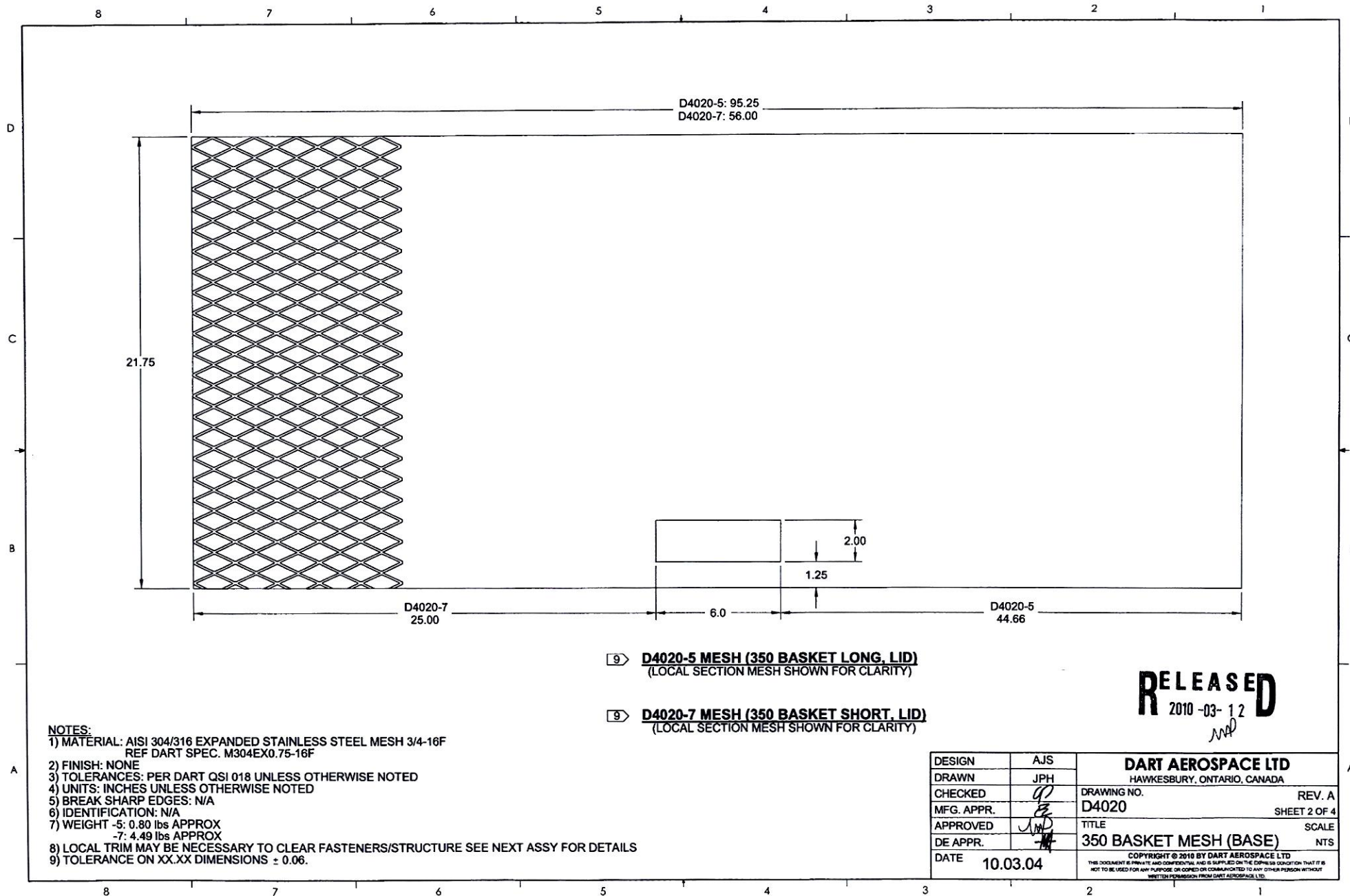
WORK ORDER NON-CONFORMANCE / UPDATE

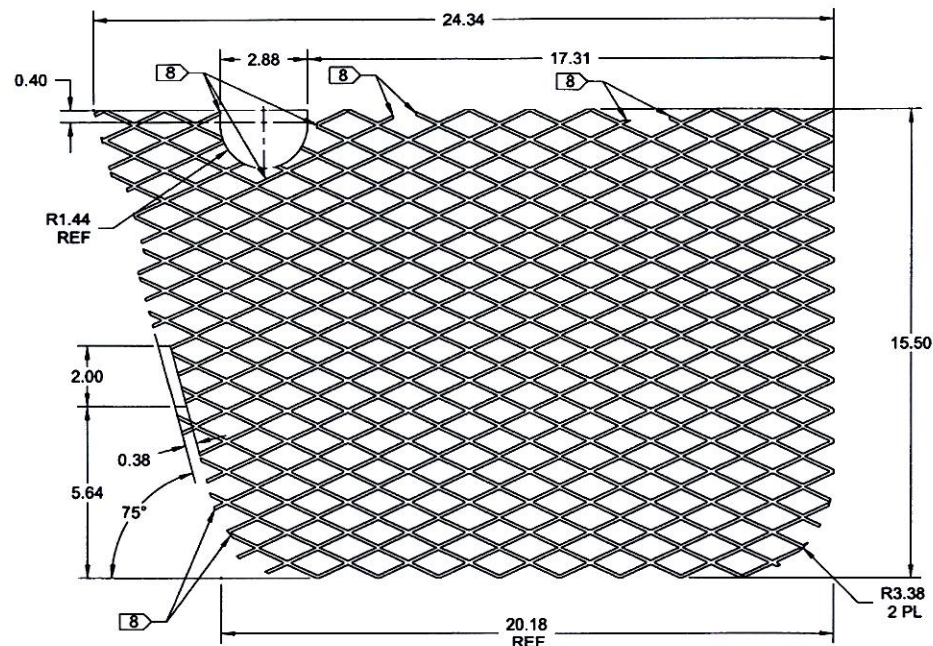
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		OTHER : ☐							







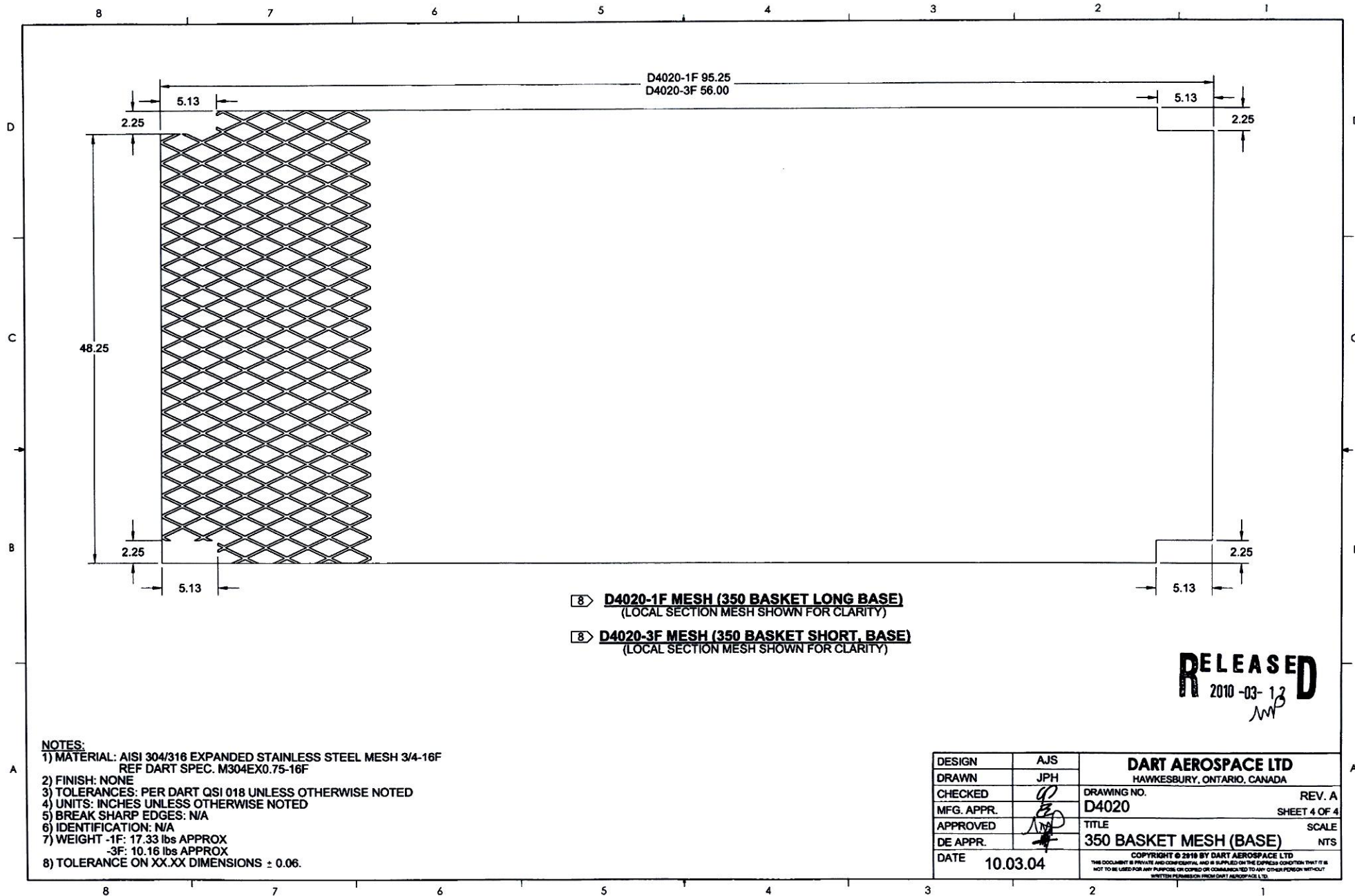
9 D4020-11 END MESH, BASKET

NOTES:

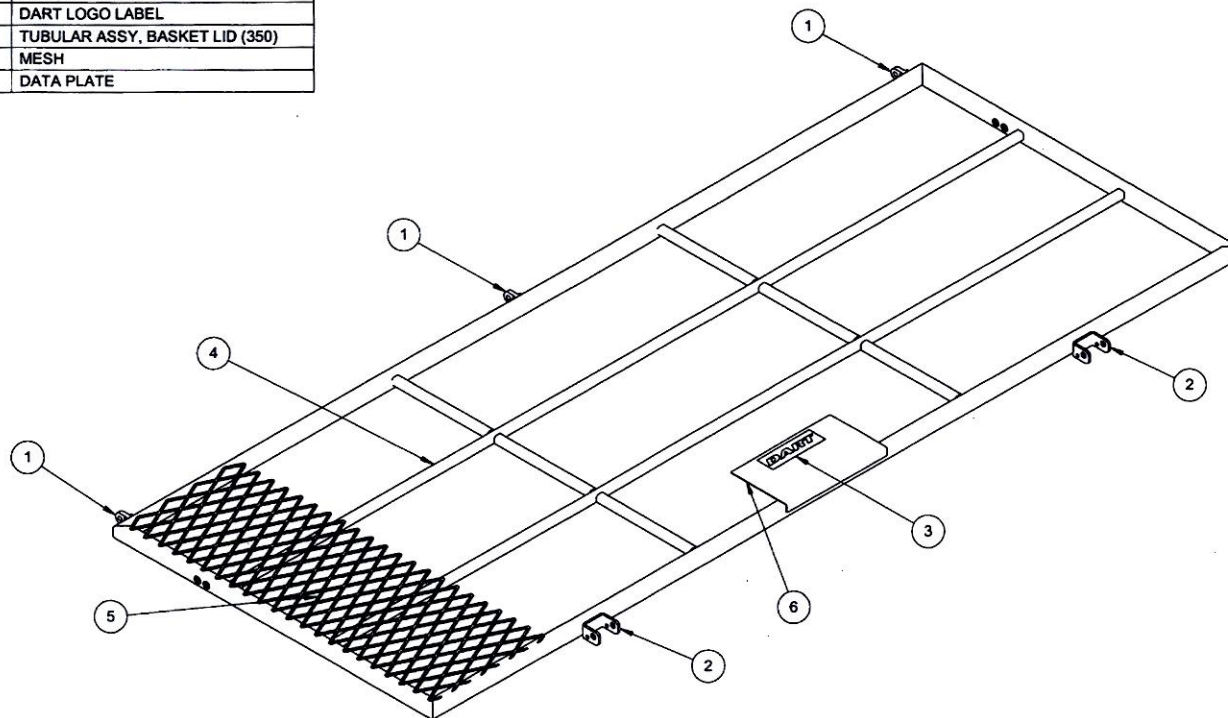
- 1) MATERIAL: AISI 304/316 EXPANDED STAINLESS STEEL MESH 3/4-16F
REF DART SPEC. M304EX0.75-16F
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 1.22 lbs
- 8) LOCAL TRIM MAY BE NECESSARY TO CLEAR FASTENERS/STRUCTURE SEE NEXT ASSY FOR DETAILS
- 9) TOLERANCE ON XX.XX DIMENSIONS ± 0.06 .

RELEASED
2010-03-12
JMD

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JPH		
CHECKED	JP	DRAWING NO. D4020	REV. A SHEET 3 OF 4
MFG. APPR.	JP	TITLE 350 BASKET MESH (BASE)	SCALE NTS
APPROVED	JP	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DE APPR.	JP		
DATE	10.03.04		



ITEM	QTY	P/N	DESCRIPTION
	X	D4018-041	SHORT BASKET LID ASSY (350)
1	3	D4016-3	HINGE HALF, LID
2	2	D2581	MOUNTING BRACKET
3	1	D2728-3	DART LOGO LABEL
4	1	D4018-101	TUBULAR ASSY, BASKET LID (350)
5	1	D4020-7	MESH
6	1	D4021-3	DATA PLATE



D4018-041 SHORT BASKET LID ASSY (350)
(MESH SHOWN LOCALLY FOR CLARITY)

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 160345
APR 25 2017

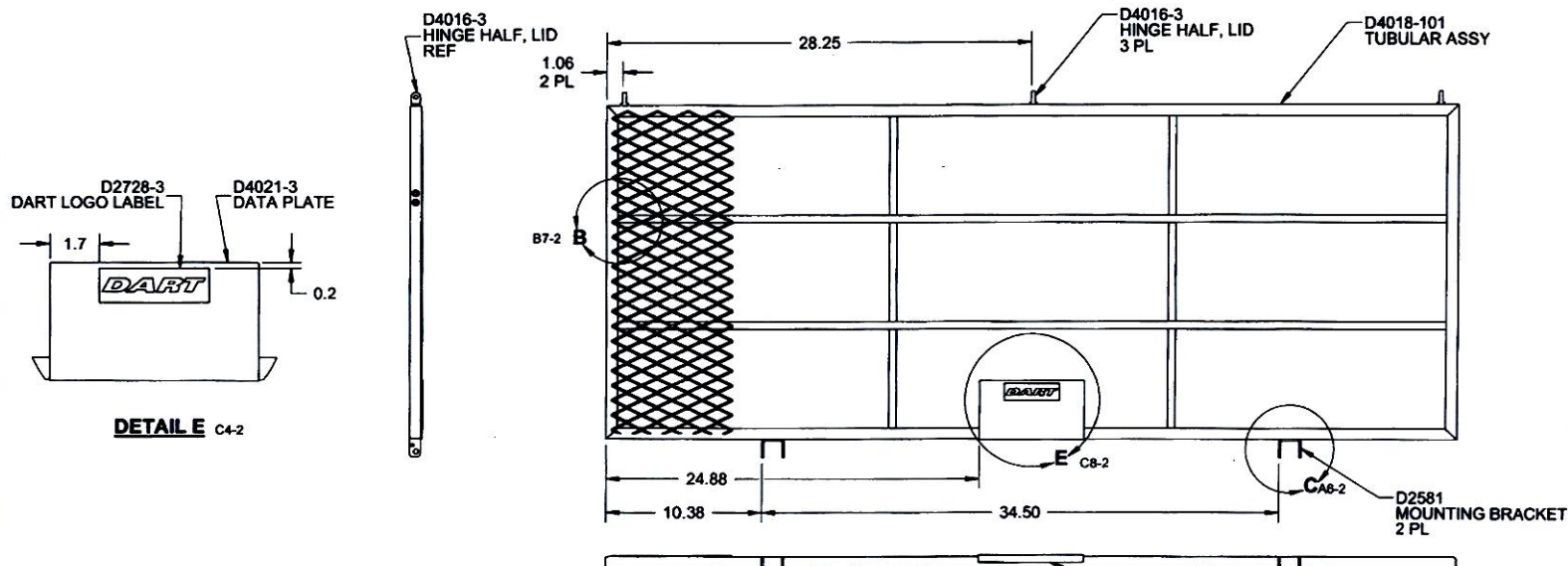
RELEASED
2013-08-16

D	C7-3 D4035-043 WAS D4035-041 (REASON: PROPARM OPTION DELETED).	AJS	13.07.18
C	REMOVED D4086-232, UPDATED DETAIL E ACCORDINGLY (C8-2). REASON: NOW INSTALLED BY OPERATORS PER D350-607-2 REV. C AND D350-607-3 REV. A.	MB	10.08.05
B	BOM. INSERTED QTY 1 D2728-3 AS ITEM 3 & QTY 1 D4086-232 PLACARD AS ITEM 7. ITEMS RENUMBERED AS REQD. SHEET 2. NOTES: PAINT SPEC ADDED & NOTE 7 & 8 REVISED. (B4-2) FRONT VIEW ADDED, WELDING SYMBOLS REVISED. DETAIL VIEW E ADDED (C4-2)&(C82). SIDE VIEWS ADDED (C1-4)&(D1-4).	JPH	10.03.25
A	NEW ISSUE	JPH	10.03.04
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	JP		
MFG. APPR.	JP		
APPROVED	JP		
DE APPR.	JP		
DATE	13.07.18		

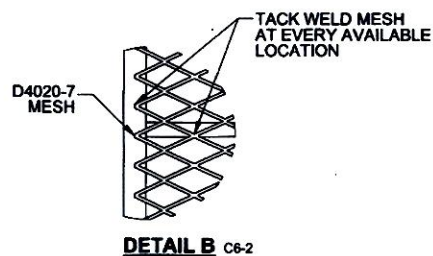
DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4018** REV. D
SHEET 1 OF 4
TITLE **SHORT BASKET LID ASSY (350)** SCALE NTS

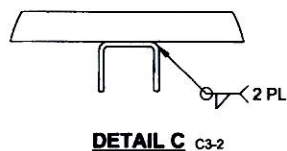
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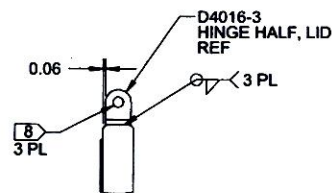
DETAIL E C4-2



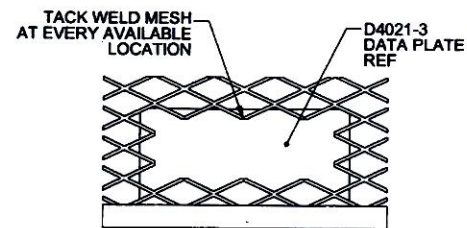
DETAIL B C6-2



DETAIL C C3-2



DETAIL D D1-2



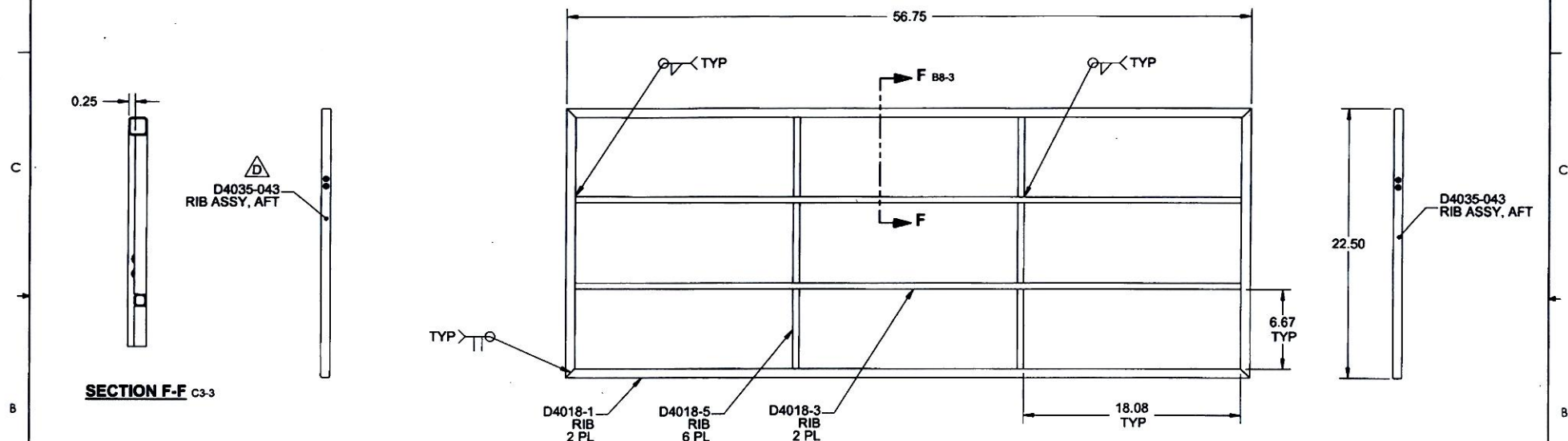
VIEW A-A C1-2

- NOTES:**
- 1) MATERIAL: N/A
 - 2) FINISH: POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3
APPLY BLACK ANTI-SKID PAINT TO OUTSIDE SURFACE OF MESH PER DART QSI 005 4.4
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 14.5 lbs APPROX
 - 8) MASK HOLES PRIOR TO FINISHING
 - 9) WELD PER DART QSI 004

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2013-08-16

DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	JP	DRAWING NO.	REV. D
MFG. APPR.	JP	D4018	SHEET 2 OF 4
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	SHORT BASKET LID ASSY (350)	NTS
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ITEM	QTY -101	P/N	DESCRIPTION
	X	D4018-101	TUBULAR ASSY, BASKET LID (350)
1	2	D4018-1	RIB
2	2	D4018-3	RIB
3	6	D4018-5	RIB
4	2	D4035-043	BASKET LID RIB ASSY, AFT



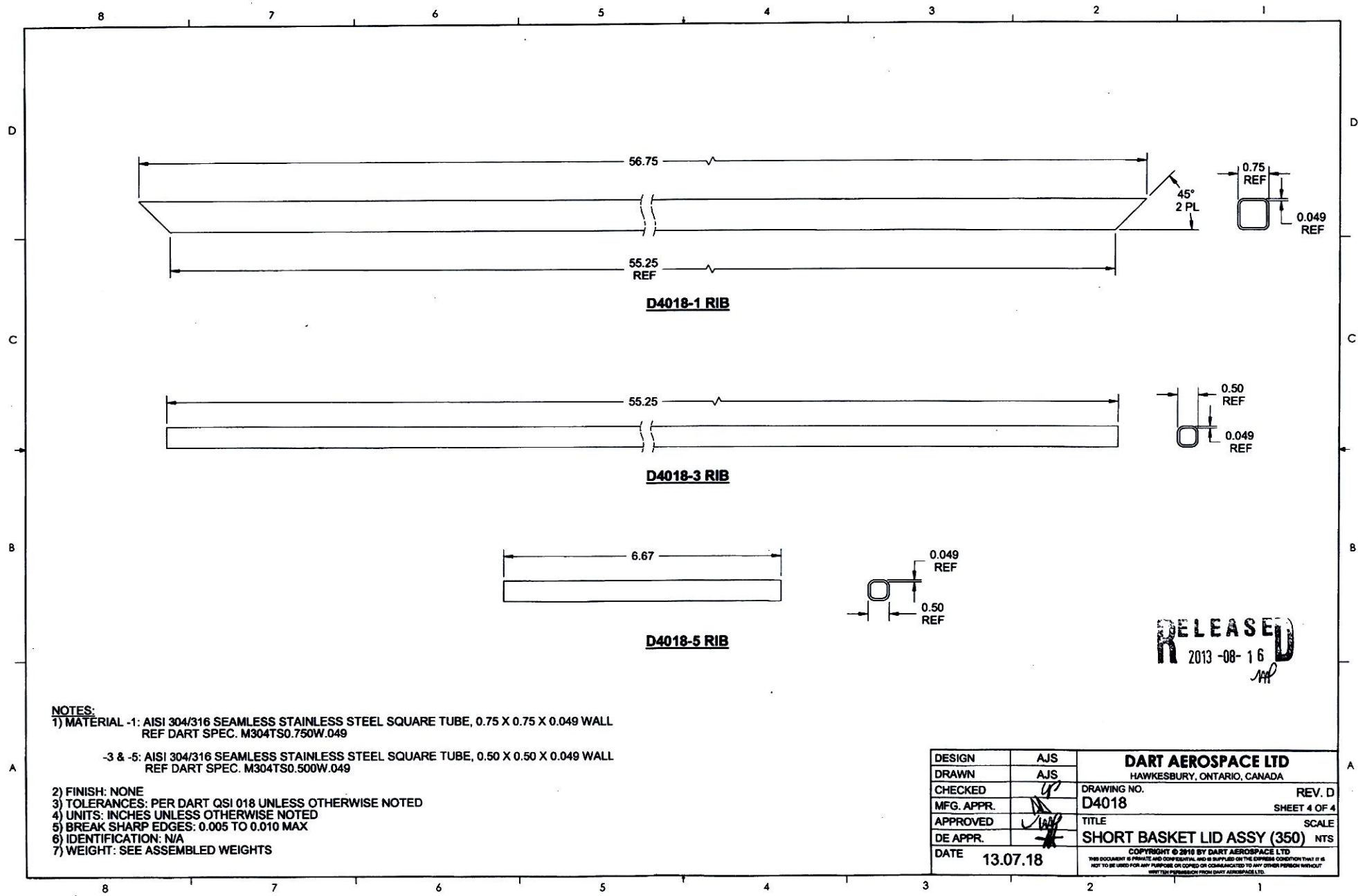
8 D4018-101 TUBULAR ASSY, BASKET LID (350)

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2013-08-16

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 9.06 lbs
- 8) TOLERANCE FOR XX.XX DIMENSIONS ± 0.06 FOR D4018-101
- 9) WELD PER DART QSI 004

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CHECKED		DRAWING NO.	REV. I
MFG. APPR.		D4018	SHEET 3 OF 4
APPROVED		TITLE	SCALE
DE APPR.		SHORT BASKET LID ASSY (350) NTS	
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CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. D
MFG. APPR.	<i>[Signature]</i>	D4018	SHEET 4 OF 4
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SHORT BASKET LID ASSY (350)	NTS
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